Sample Four Year Plan

Statistics (BS), Classical Track, Assumes MATH 198 and STAT 190 Credit

Semester 1
- TRU 120: First Year Seminar (3 cr)
- MATH 263: Analytic Geometry and Calculus II (4 cr)
- DATA 222: Data Science (3 cr)
- Elementary Foreign Language I (3 cr)

Semester 2
- STAT 101: New Majors Seminar (1 cr)
- ENG 190: Writing as Critical Thinking (3 cr)
- COMM 170: Public Speaking (3 cr)
- MATH 264: Analytic Geometry and Calculus III (4 cr)
- Elementary Foreign Language II (3 cr)

Semester 3
- STAT 310: WE/Data Collection & Statistical Communication (3 cr)
- CS 170: Intro to Computer Science I (4 cr), **OR** CS 180: Foundations of Computer Science I (4 cr)
- MATH 200: WE/Foundations of Mathematics **(**)** (3 cr), **OR** another Math/Science Course (3 cr)
- STAT 290: Statistics (3 cr), **OR** STAT 370: Probability **(**)** (3 cr)
- Dialogues Curriculum course (3 cr)

Semester 4
- STAT 250: Statistical Computing (3 cr)
- STAT 330: Introduction to Linear Models (3 cr)
- MATH 285: Matrix Algebra (3 cr), **OR** MATH 357: Linear Algebra (3 cr)
- Dialogues Curriculum course (3 cr)
- Dialogues Curriculum course (3 cr)

Semester 5
- STAT 398: Intermediate Seminar in Statistics and Data Science (1 cr)
- STAT 478: Regression Analysis (3 cr)
- STAT 570: Mathematical Probability and Statistics I **(**)** (3 cr), **OR** STAT Elective (3 cr)
- Dialogues Curriculum course: Lab Science (4 cr)
- Dialogues Curriculum course (3 cr)

Semester 6
- JINS 3XX: WE/_____ (3 cr)
- STAT 571: Mathematical Probability and Statistics II **(**)** (3 cr), **OR** STAT 400+ Elective (3 cr)
- MATH/STAT Elective (3 cr)
- Dialogues Curriculum course (3 cr)
- Dialogues Curriculum course (3 cr)

Semester 7
- STAT 497: WE/Senior Capstone Experience (2 cr)
- STAT 498: Senior Seminar in Statistics and Data Science (1 cr)
- MATH/STAT Elective (3 cr)
- Dialogues Curriculum course (3 cr)
- Free Electives as desired *(5 or more)* (3-6 cr)

Semester 8
- STAT Elective (3 cr)
- STAT Elective (3 cr)
- Dialogues Curriculum course (3 cr)
- Free Electives as desired *(5 or more)* (6 cr)

NOTES:

- Total Truman credits is below 120 assuming 8 credits from STAT 190 and MATH 198 to total 128 credits.
- **(**)** = **Actuarial Science minors** should take STAT 290, 570, 571, MATH 330 (as a MATH/STAT elective) and one additional STAT elective not in the above plan, and (for the minor) take BSAD 153, ACCT 220, BSAD 329, and ECON 200-201 or 205. Actuarial science minors should also consider taking STAT 460 Undergraduate Statistics Practicum when they do their actuarial science internship in the summer to substitute for STAT 497 (although they will need a second writing-enhanced course).
- **Math minors** should take MATH 200 (as a course for the BS requirement or as a MATH /STAT elective), MATH 357, STAT 570, STAT 571, and (for the minor) one other math major course (excluding MATH 263). Note: MATH 330, 400, or 461 could also count as a MATH/STAT elective.

- **Students interested in graduate school in theoretical statistics** should strongly consider taking MATH 200 (as a course for the BS requirement or as a MATH /STAT elective), MATH 461 (as a course for the BS requirement or as a MATH /STAT elective), and STAT 570-571.
- WE = Writing Enhanced course
- If you have not completed the Civics Exam, we recommend doing so in your **first year**.
- Truman students are required to complete a Portfolio to graduate. We recommend starting to compile your work for the Portfolio sooner than later.
- Students must complete their Application to Graduate **the semester prior to graduating**. Apply to graduate through TruView.
- Graduating seniors need to complete their seniors test and questionnaire. We recommend reviewing the Assessment & Testing page to plan accordingly.
- **The Dialogues curriculum** requires a certain number of courses/credit hours in the following Perspectives: Social, Arts and Humanities, STEM, Communications, and Statistics. The exact number of courses a student will be required to take during their undergraduate career varies individually according to the credit transferred in.

Department Chair: Please contact the Center for Academic Excellence with any updates to the plan above. Rev. 8-7-24